1   **Forecast for MEIDEX**
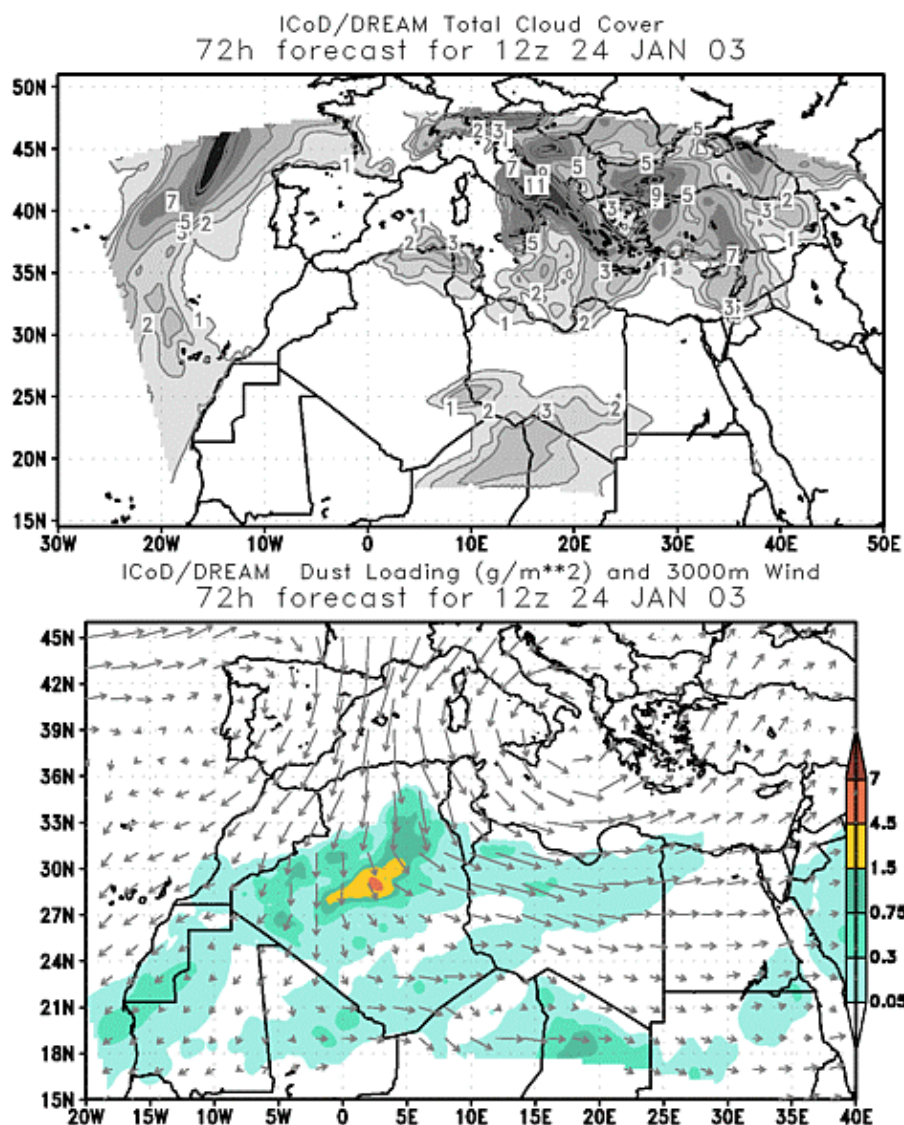
2   Date: 22 Jan 2003

3   **General:** The "Tunisian" cyclone yielded yesterday, 22 Jan 2003, 81 mm rain within 3
4 hours!!!! The "Yoav" cyclone is organizing itself and is expected to deepen and stay near
5 Italy for the next 3 to 4 days. This may result in cloudiness typical to a warm front over
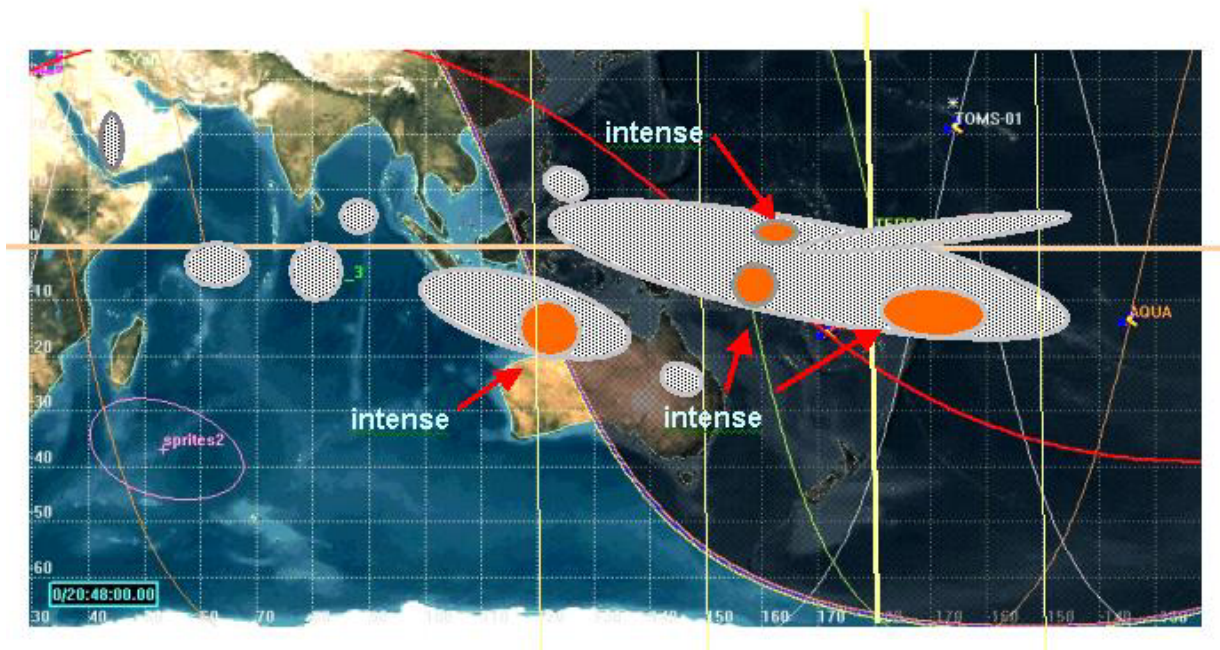6 Crete, with a chance of having dust, mainly to the east of Crete around 24 Jan.

7 **Weather over Crete:** 22 Jan - stratified clouds, mainly high-medium will approach the
8 region from west, with a chance of light rains in the evening. Visibility - moderate.

9 Two forecast models do not show any dust plumes over the Mediterranean or over the
10 Atlantic for 22 and 23 Jan. One model shows a chance of small dust plume near east Lybia,
11 combined with a "hole" in the cloudiness.

ICoD/DREAM Total Cloud Cover
72h forecast for 12z 24 JAN 03

ICoD/DREAM Dust Loading (g/m**2) and 3000m Wind
72h forecast for 12z 24 JAN 03

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Sprite forecast for 22 Jan 2003 12 UTC

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5 In thanks for the great contributions to MEIDEX that you have made this flight, Joachim
6 "Yoya" Joseph plans to periodically send up some small tributes and humor to brighten your
7 day. The first installment is dedicated to Dave.
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9 **A Pseudo Limerick on a Man named Dave**
10 There is a good man named Dave
11 Who to get to space his all gave.
12 He hunts for Sprites but catches Elves
13 Which just want to be alone and by themselves.
14 He sets them all up in good order
15 And immortalizes them with his video recorder.
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1 **FD08 Operations Message – Blue Team**
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3 **MX Playback:** None
4 **MX XFERS:**   None
5 **MX PGSC SETUP (Step 5):** 06/15:30
6 **Standalone Door Ops**:   06/17:55 (Open)
7   06/18:50 (Close)
8 **Digital TV Instructions:**   None
9
10 **Special Instructions:**
11
12 1) This message includes operations for the Blue Shift only. A separate message for
13   red shift MEIDEX operations will be uplinked with the Red Execute Package.
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15 2) We have concluded that leaving AUTOTLM enabled on the PGSC should not have
16   any impact on our telemetry sync problems when the POCC is in control. As such,
17   we will no longer be asking you to disable AUTOTLM prior to our POCC taking over
18   control.
19
20 3) Once again, you can expect to see some of the Sprite attitudes modified from the
21   pre-mission wake viewing orientation to capture activity outside of the orbit track.
22   We are still working on the exact changes required and will finalize these for the Red
23   Shift Sprite operations.
24
25 4) Please continue to keep your eye on the Xybion temperature. It seems that the heat
26   generated by the truss motors is a factor in the rapid heating during Sprite activities.
27   Please don't stop moving the truss (this is critical for catching science!) but keep your
28   eyes open for the 40 deg limit. We will continue to deactivate the camera in between
29   observations as the timeline allows. If you notice that the camera reaches 40 deg
30   during any of your ops, we would like you to immediately deactivate it via MEIDEX
31   CLOSEOUT Step 3 (PLOPS, 1-79).
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1 **Orbit # 106**
2 Observation type: Moon Cal
3 Video: Live Analog Downlink, Recorded on V10 #1 and #2
4 Special Instructions: 1) Center Moon in Xybion FOV at start of observation. 2) Do not
5   Record on PLD VCRs until moon in Xybion FOV. Once started, record
6   for 6 minutes. 3) Position the moon over few different location of the
7   FOV with the truss control.
8 **Violations:**   **RAM until 06/14:45**
9

Start	Procedure	Instructions	R/NR	CMD	Notes
06/13:40	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	REQ	POCC	VCR = 3
		Step 7 (Sekai Activation)	REQ	POCC	
06/14:15	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
06/14:20	MEIDEX SCIENCE	Step 4 (Xyb Cam Config)	REQ	POCC	Setup = Moon
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = 0
06/14:10	**MEIDEX SETUP**	**Step 1 (Timer Setup)**	**REQ**	**Crew**	
		Step 2 (PTV Check)	**REQ**	**Crew**	
		Step 3 (Tape Verification)	**REQ**	**Crew**	
06/14:30	**MEIDEX SCIENCE**	**Step 1 (Xyb Pwr Check)**	**REQ**	**Crew**	
		Step 2 (Xyb T/D Check)	**REQ**	**Crew**	
		Step 3 (Door Open)	**REQ**	**Crew**	**NET 06/14:45**
		Step 4 (Xyb Cam Config)	NR	--	Already cmded
		Step 5 (Mon 2 Checks)	**REQ**	**Crew**	**Setup = Moon**
		Step 6 (Truss Pntg Config)	NR	--	Already cmded
		Step 7 (In Cabin Record)	**REQ**	**Crew**	**Analog Dnlk. Do not record until door open.**
		Step 8 (PLD VCR act)	**REQ**	**Crew**	**Do not record until moon in Xyb FOV**
06/14:46	**T Time**	**Step 9 (Observation)**	**REQ**	**Crew**	**Mnvr truss as reqd to move moon through image. Proceed to step 10 after 6 minutes of PLD VCR recording or NLT 06/15:00 (whichever comes first)**
NLT 06/15:00	**MEIDEX SCIENCE**	**Step 10 (PLD VCR Stop)**	**REQ**	**Crew**	
		Step 11 (In Cabin Stop)	**REQ**	**Crew**	
		Step 12 (PTV PWRDN)	**REQ**	**Crew**	
		Step 13 (Door Close)	**REQ**	**Crew**	**NLT 06/15:03**
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
06/15:05	MX Closeout	Steps 1-4	REQ	POCC	
06/15:30	**MX PGSC SETUP**	**Step 5 (MX Tlm Config)**	**REQ**	**Crew**	

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1 **Orbit # 109**
2 Observation type: Sea Surface (Mediterranean)
3 Attitude: tail forward
4 Airplane Support: Yes
5 Video: Live analog downlink
6 Special Instructions: No dust expected. Ground commanded observation. Requires crew
7   for door open and close. Setup is being performed in preparation for
8   the Orbit 110 Red Shift observation.
9 **Violations: RAM at 06/18:51**
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Start	Procedure	Instructions	R/NR	CMD	Notes
06/17:15	MEIDEX SETUP	Step 4 (TLM Config)	REQ	POCC	
		Step 5 (Event Log Config)	REQ	POCC	
		Step 6 (PLD VCR Act.)	REQ	POCC	VCR = 3
		Step 7 (Sekai Activation)	REQ	POCC	
06/17:25	**MEIDEX SETUP**	**Step 2 (PTV Check)**	**REQ**	**Crew**	
		Step 3 (Tape Verification)	**REQ**	**Crew**	
06/17:35	XYBION ACTIVATION	Step 1 (Xybion Powerup)	REQ	POCC	
		Step 2 (Time/Date Config)	REQ	POCC	
06/17:45	MEIDEX SCIENCE	Step 1 (Xyb Pwr Check)	NR	--	
		Step 2 (Xyb T/D Check)	NR	--	
06/17:55	**MEIDEX SCIENCE**	**Step 3 (Door Open)**	**REQ**	**Crew**	**06/17:55**
		Step 4 (Xyb Cam Config)	REQ	POCC	Setup = ROI
		Step 5 (Mon 2 Checks)	NR	--	
		Step 6 (Truss Pntg Config)	REQ	POCC	Truss = 0
		Step 7 (In Cabin Record)	NR	--	
		Step 8 (PLD VCR act)	REQ	POCC	VCR = 3
06/18:08	T Time	Step 9 (Observation)	REQ	POCC	
06/18:16	MEIDEX SCIENCE	Step 10 (PLD VCR Stop)	REQ	POCC	NLT 06/18:17
		Step 11 (In Cabin Stop)	NR	--	
		Step 12 (PTV PWRDN)	NR	--	
06/18:45	**MEIDEX SCIENCE**	**Step 13 (Door Close)**	**REQ**	**Crew**	**NLT 06/18:51**
		Step 14 (PLD VCR Swap)	NR	--	
		Step 15 (Status Check)	REQ	POCC	
		Step 16 (Truss Reconfig)	REQ	POCC	
06/18:20	MX CLOSEOUT	Step 3 (Xybion Deact)	REQ	POCC	
06/18:51	**RAM Violation**	**Door Must be closed**			

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13 Flight Day 08 MEIDEX observations continued in Red FD08 Execute Package….
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